May 24, 2017

Via ECFS
Marlene H. Dortch, Secretary
Federal Communications Commission
445 Twelfth Street, SW
Washington, DC 20554

Re: Wireless E-9-1-1 Location Accuracy Requirements (PS Docket No. 07-114)

Dear Ms. Dortch:

On May 23, 2017, Scott Bergmann and Matthew Gerst of CTIA met with Zenji Nakazawa of Chairman Ajit Pai's Office to discuss the wireless industry's progress, working in collaboration with public safety, towards meeting the FCC's *Fourth Report & Order on Wireless 9-1-1 Location Accuracy*. During the meeting, CTIA discussed the contents of the attached slide deck.

Please direct any questions regarding this filing to the undersigned.

Sincerely,

/s/ Matthew Gerst

Matthew B. Gerst
Assistant Vice President, Regulatory Affairs

cc: Zenji Nakazawa

Wireless 9-1-1 Location Accuracy: *Progress on the Road Towards Realizing the FCC's 4th Report & Order*

May 2017

Presented to the Office of FCC Chairman Ajit Pai

Wireless 9-1-1 Location Accuracy:

A New Course to Harness Commercial Solutions

ctia™ Everything Wireless

Wireless 9-1-1 is Harnessing Available Technologies

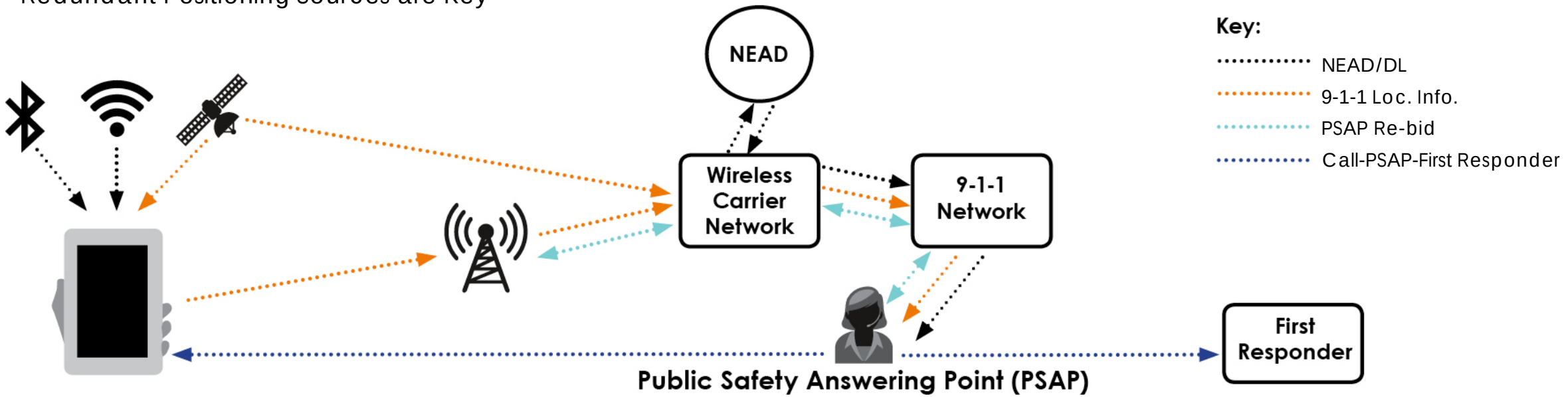
- Leveraging Successful Commercial Methods to Enhance 9-1-1 Location Technologies and Meet the FCC's 50M Horizontal Requirements
- Solving *Indoor* Location Challenges with *Indoor* Wireless Location Technologies
- Redundant Positioning Sources are Key

Independently Administered Indoor Test Bed

- Baselines Existing and New Location Technologies Against the 50 M Horizontal Requirement
- Evaluates New Vertical Solutions, such as Z-Axis, and Dispatchable Location

Dispatchable Location

- A National Emergency Address Database (NEAD) of Wi-Fi Access Points and Bluetooth LE Beacons with Street Address Plus Additional Info
- NEAD is an *Additional* Component to the Existing 9-1-1 System



Conceptual Only (Not Technical)

9-1-1 Location Accuracy Technologies Test Bed LLC

Implementation

- Test Bed LLC Established (June 2015)
- ATIS Selected as Program Manager (September 2015)
- LCC Design Services, a TechMahindra Company, Selected as Administrator/Executor (March 2016)
- Non-Nationwide Provider Access to Stage 1 Test Data (December 2016)

Key Points

- Regions: Atlanta, GA and San Francisco, CA
- Morphologies per Region: Dense Urban, Urban, Suburban, Rural
- Indoor Testing: 30 Building candidates per Region
- Test Data is Confidential and Proprietary

Results

- Stage 1 – Carrier Compliance Testing Completed (3Q16) - Test Existing Carrier Tech Performance Indoors Against the FCC's 50 M Horizontal Req.
- Stage 2 - New and Emerging Technology Testing (4Q16) – Vendor Solutions Tested Under Stage 1 Parameters, included Preliminary Z-axis Results
- Stage 3 – New and Emerging Technology Testing - (Methodology Under Development in ATIS ESIF) – Vendor Solutions Will Be Tested Under Special Considerations
- Dispatchable Location and Z-Axis Testing --(Methodology Under Development in ATIS ESIF)

NEAD LLC

Implementation

- RFP Released (Oct. 2015)
- West Safety Services Selected as Vendor (Oct. 2016)
- NEAD Privacy and Security Plan Provided to the FCC (Feb. 2017)
- First Carrier Progress Reports Provided to FCC (Feb. 2017)
- Second Carrier Progress Reports Due to the FCC (Aug. 2018)
- NEAD Platform Available to Support Wireless 9-1-1 (2018)(*Subject to FCC Approval of NEAD Privacy and Security Plan*)

FCC Reference Point Requirements

- 25% of Population of Top 25 CMAs (April 2021)
- 25% of Population of Top 50 CMAs (April 2023)

FCC Use Restriction

- Wireless Carriers Will Not Use the NEAD or Associated Data for Any Non-911 Purpose, Except as Otherwise Required by Law.

Next Steps in 2017

- Continue Indoor Testing of New and Existing Technologies
  - Stage 3, Dispatchable Location, and Z-Axis
- Operationalize the NEAD
  - FCC Approval of NEAD Privacy & Security Plan (Requires FCC Action)
  - Populate the NEAD with Reference Points
  - Test Dispatchable Location
- Education & Outreach
  - Blog: http://www.ctia.org/industry-data/blog-details/blog-posts/9-1-1-location-accuracy-public-safety-and-consumers
  - Infographic: http://www.ctia.org/industry-data/facts-and-infographics-details/fact-and-infographics/getting-9-1-1-location-accuracy-right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